Search Results - Record(s) 1 through 4 of 4 returned.

L7: Entry 4 of 4 File: USPT May 25, 1976

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☑ 2. 4417415. 26 Apr 82; 29 Nov 83. Process for culturing a microalga, and extracting a polysaccharide therefrom. Cysewski; Gerry R., et al. 47/1.4; 435/101 . A01G007/00 .

☑ 3. 4236349. 24 Jul 78; 02 Dec 80. **Algae** biopolymer production. Ramus; Joseph S.. 47/1.4; . A01G007/00 .

☐ 4. 3958364. 05 May 75; 25 May 76. Production of algal bio-polymers. Schenck; Paula, et al. 435/101; 210/602 210/610 210/730 47/DIG.10 . A01G007/00 C02C001/00 .

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DOCUMENT-IDENTIFIER: US 3958364 A
TITLE: Production of algal bio-polymers

Abstract Text (1):
Cultivation of **algae** to produce long chain polymers having flocculating properties is disclosed. **Algae** are cultivated in an aqueous nutrient medium until relatively high culture densities are achieved and thereafter under conditions in which the cells become deficient in nitrogen thereby causing the cells to shift from a growth phase in which protein production predominates to a growth phase in which extracellular polymer production predominates. An adequate supply of other nutrients as well as CO.sub.2 and light are maintained in the culture medium during the latter phase to insure that a change in cell metabolism is produced by a deficiency in nitrogen. The **algae** then produce high molecular weight polymers exhibiting strong flocculating activity.

Brief Summary Text (2):
This invention relates to the production and use of **algae** as a source of polymeric materials displaying strong flocculating activity. An important feature of the invention involves the discovery that the growth of **algae** can be regulated so as to favor the production of large amounts of flocculants, useful in waste water treatment operations for the breakdown